

ABSTRACT OF THE DISCLOSURE

A magnetic-field-measuring probe includes at least two magnetoresistive sensors which are sensitive to respective magnetic fields along a determined measurement axis. The at least two magnetoresistive sensors are rigidly connected to one another in a position such that the measurement axes thereof are at an angle other than zero. Output terminals specific to each magnetoresistive sensor are used to supply a signal that is representative of the field measured by each sensor along the measurement axis thereof. The difference between the derivative of a first magnetic field relative to a second direction and the derivative of a second magnetic field relative to a first direction is calculated to determine a component of current to be measured.